

1/20

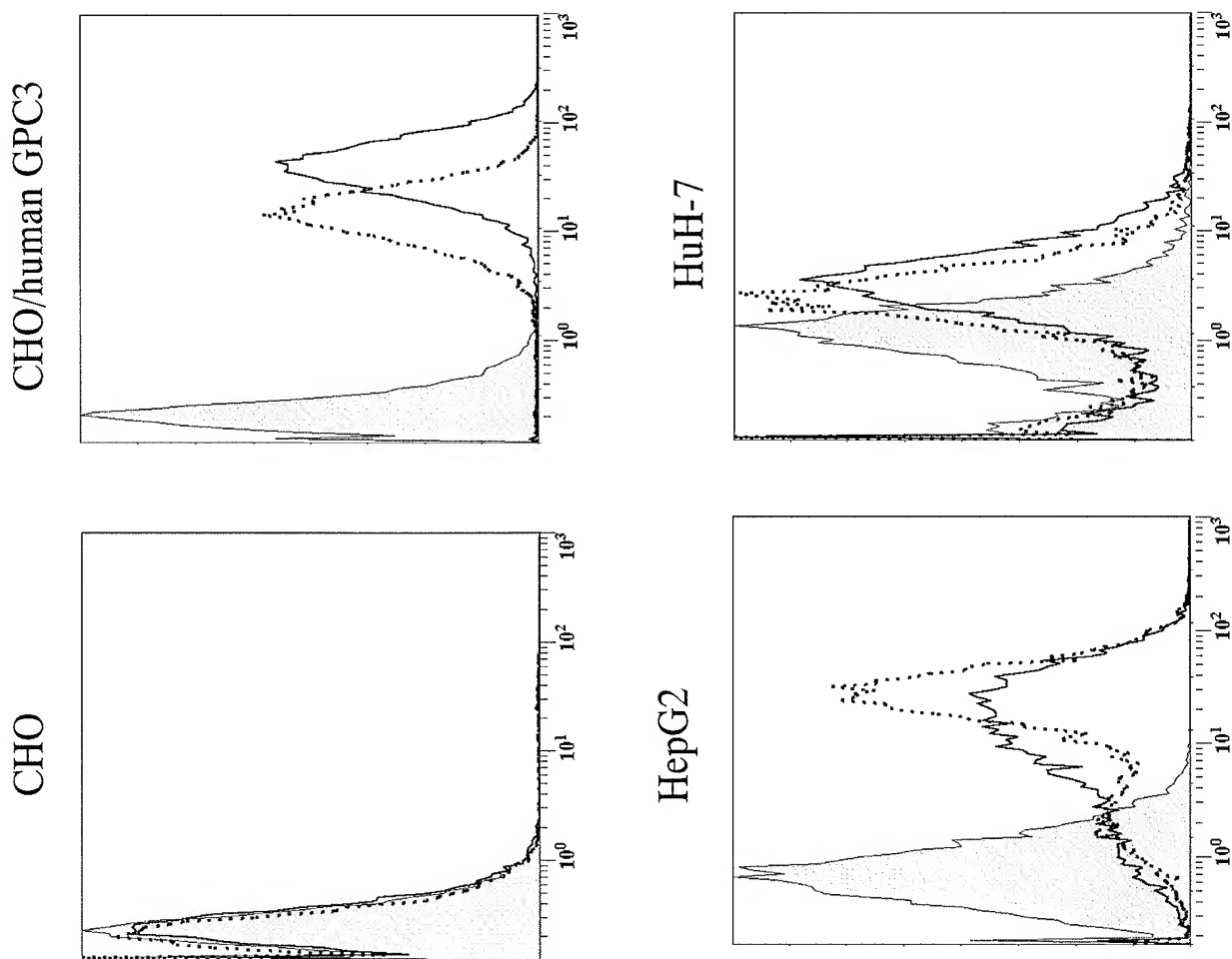


FIG.1

2/20

Mab	Inhibition of the binding of indicated biotin-Mab to sGPC3 core (%)							Topographical epitope
	M3C11	M1E7	M11F1	M6B1	M18D4	M5B9	M10D2	L9G11
M3C11	<u>96.8</u>	<u>96.2</u>	12.0	11.2	10.3	9.1	39.9	33.1
M13B3	<u>71.3</u>	<u>95.7</u>	15.6	9.3	2.7	-1.8	22.3	24.9
M1E7	26.0	<u>83.9</u>	14.3	7.7	9.0	6.4	14.8	38.0
M3B8	1.8	28.4	<u>97.4</u>	15.2	12.6	3.6	29.0	36.0
M11F1	2.0	3.9	<u>81.8</u>	5.6	-1.5	5.4	24.6	20.9
M19B11	-4.1	-9.4	3.1	<u>87.6</u>	44.1	31.0	14.2	-9.8
M6B1	-5.7	-2.7	13.9	<u>85.6</u>	<u>51.9</u>	44.4	6.7	1.1
M18D4	0.2	0.5	-0.3	38.6	<u>89.0</u>	<u>89.4</u>	19.1	6.7
M5B9	0.1	2.7	5.3	23.2	<u>77.3</u>	<u>77.3</u>	13.4	10.3
M10D2	-7.7	0.6	7.8	-5.9	-21.6	-10.3	<u>79.2</u>	7.2
L9G11	2.1	-4.8	6.0	10.1	15.7	6.4	1.2	<u>92.2</u>

FIG.2

3/20

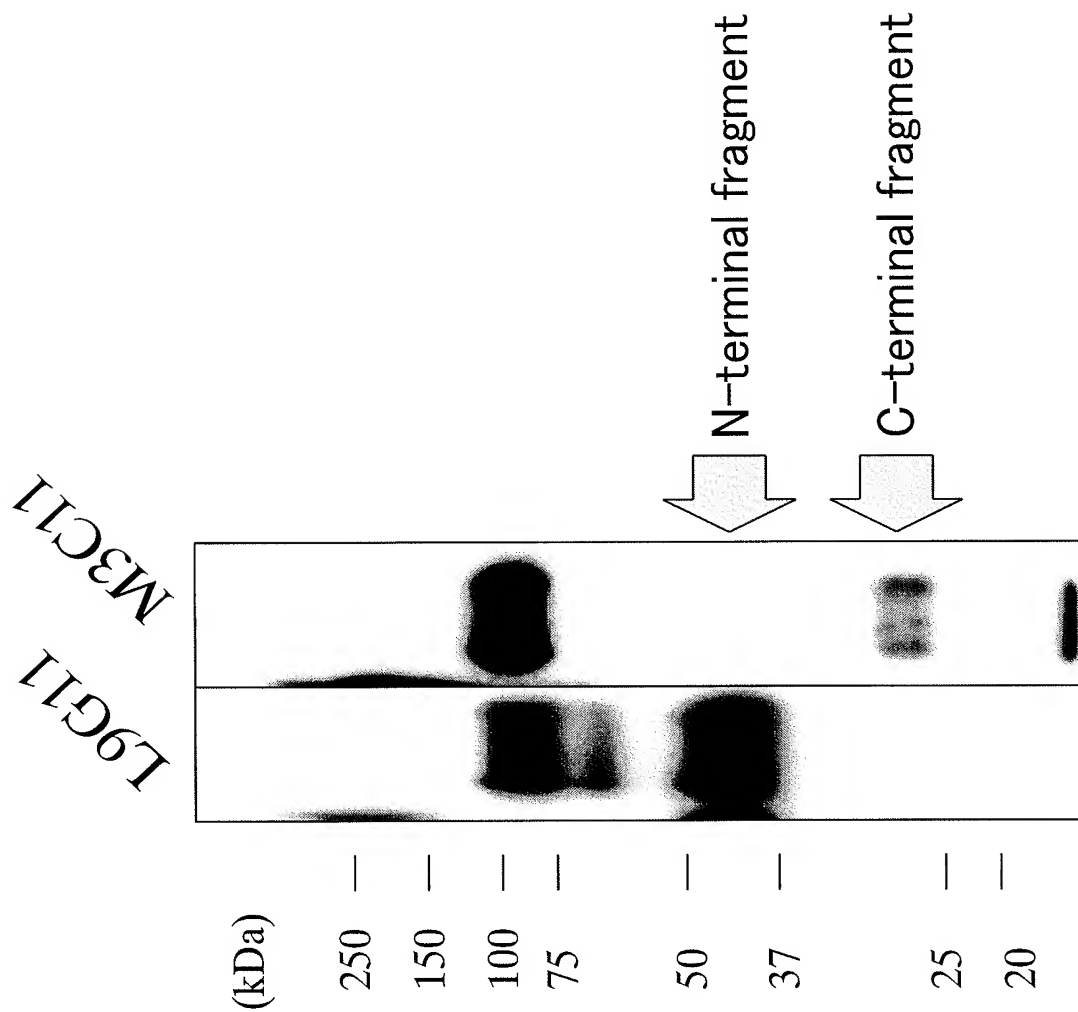


FIG.3

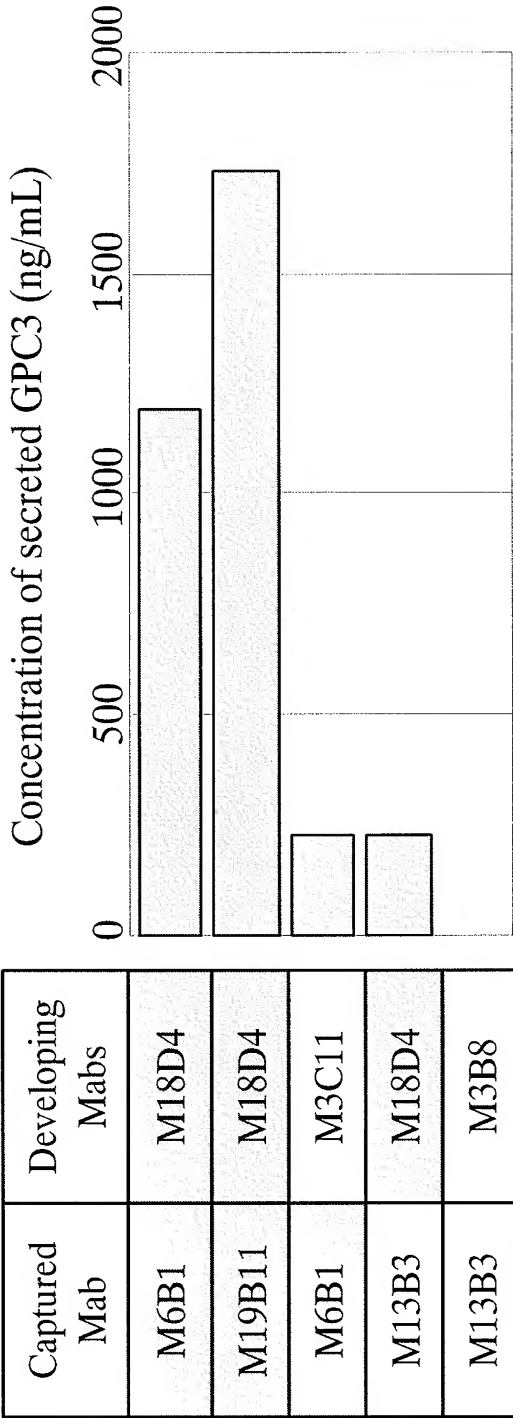


FIG.4

5/20

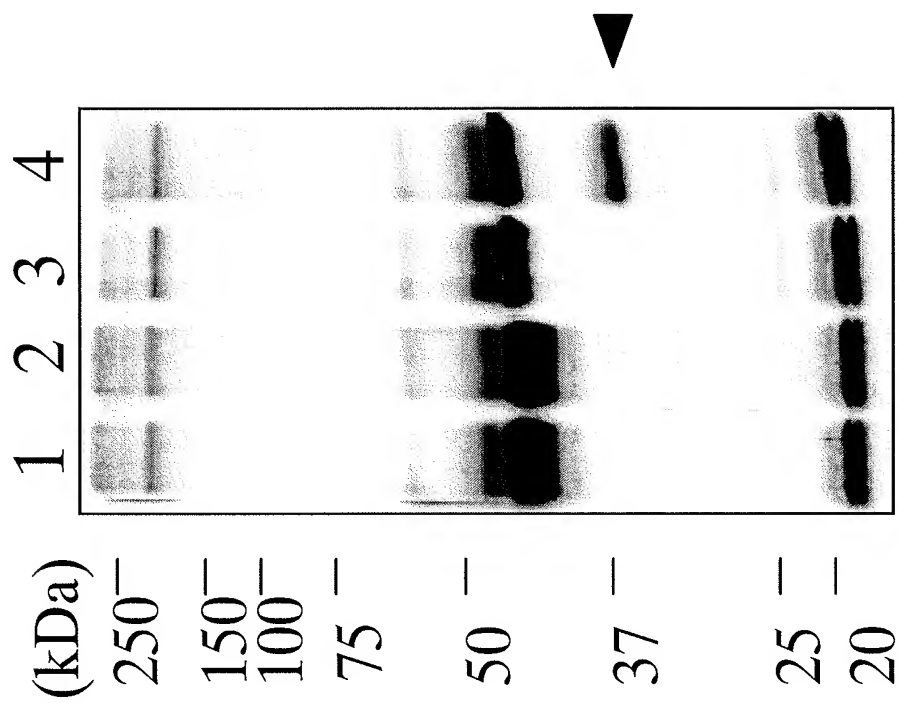


FIG.5

6/20

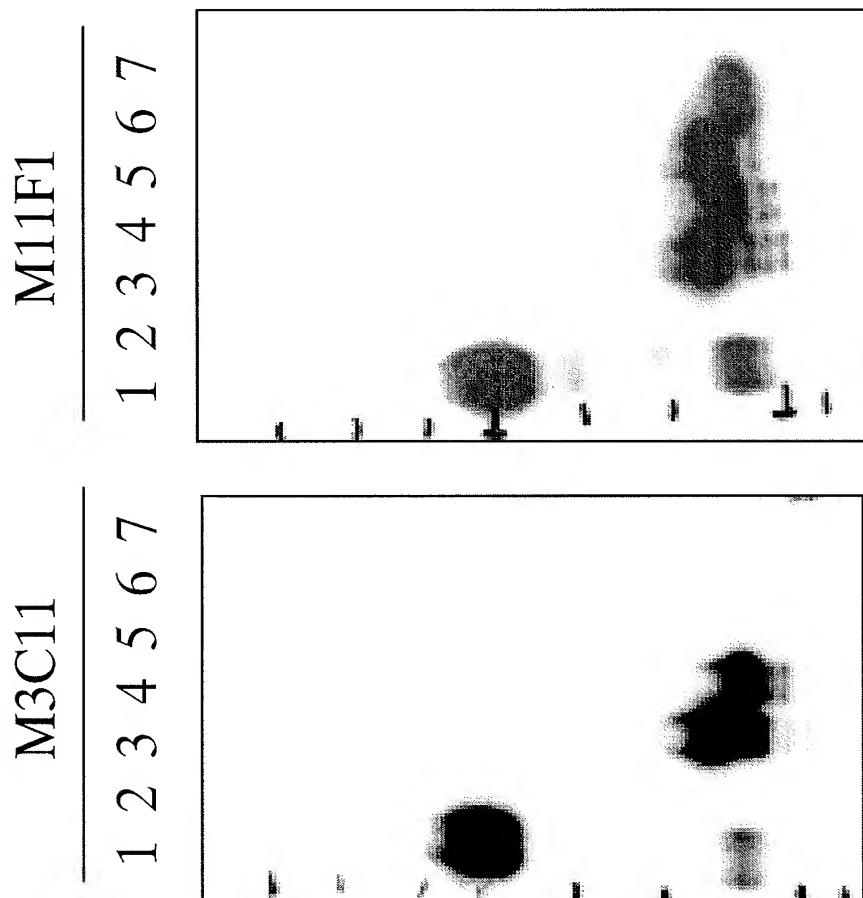


FIG.6

7/20

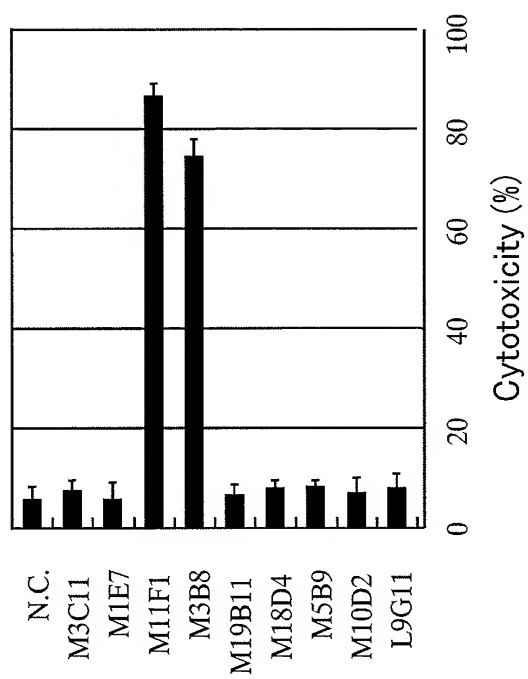


FIG.7

8/20

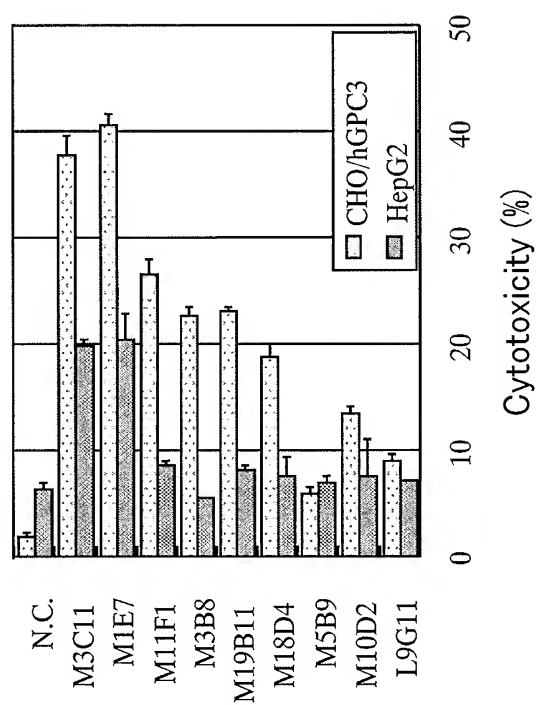


FIG.8

9/20

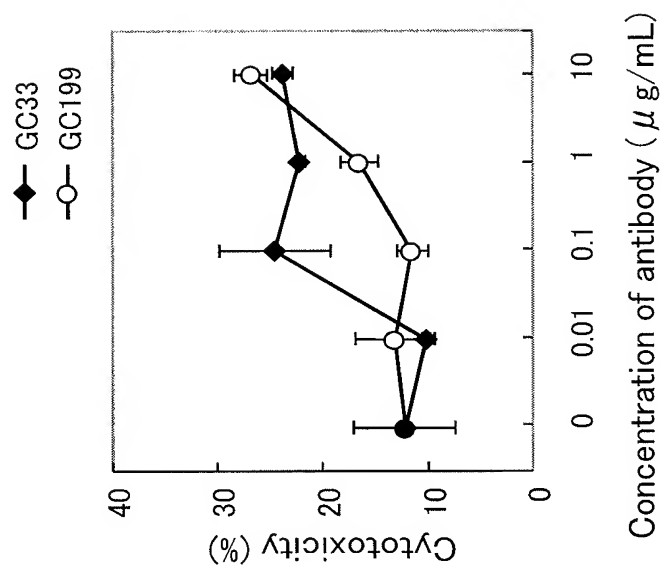


FIG.9

10/20

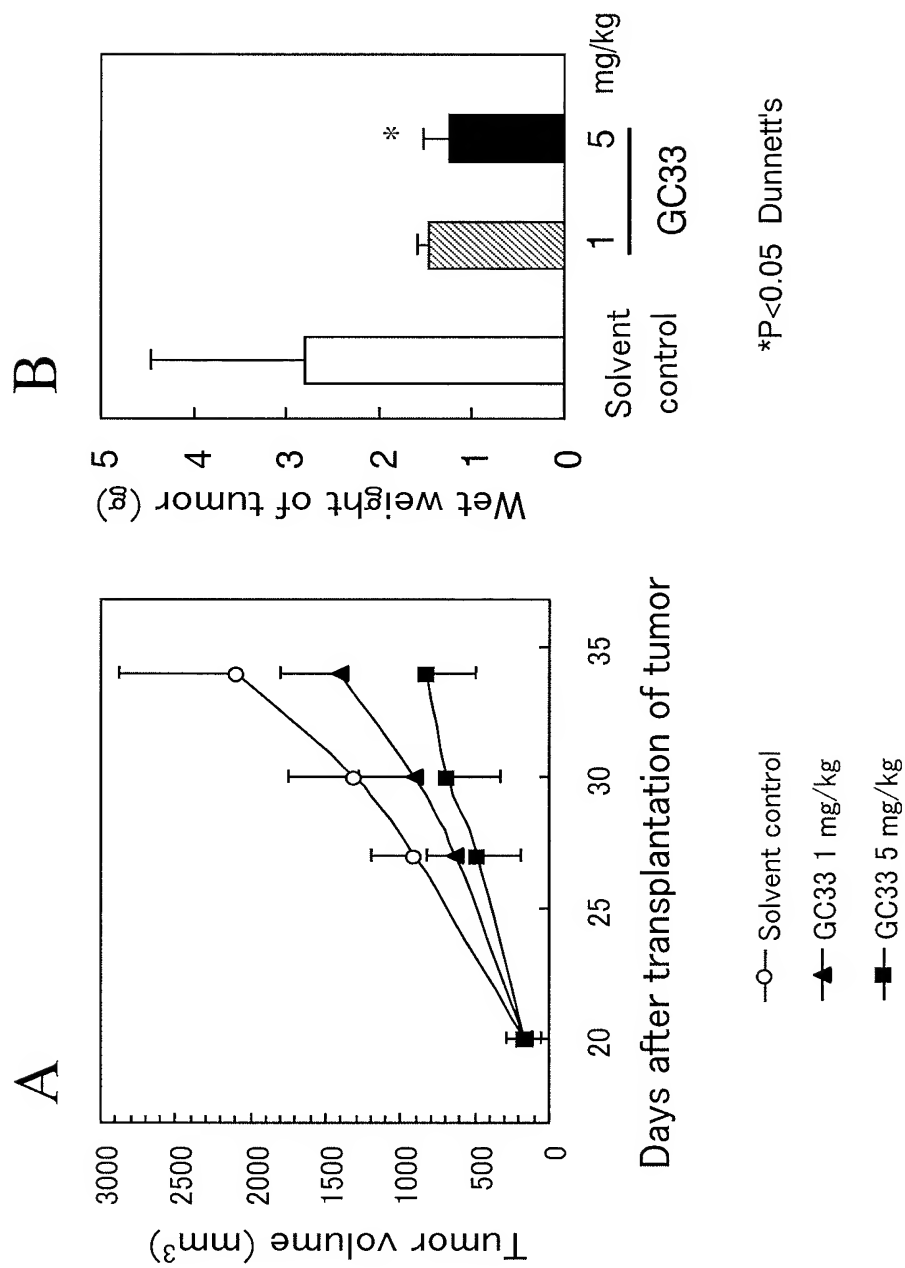


FIG.10

11/20

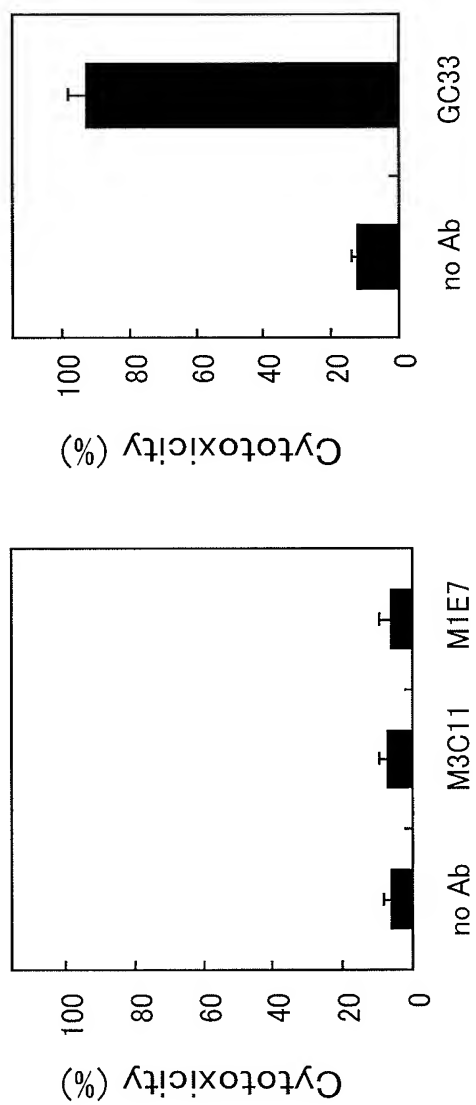


FIG.11

12/20

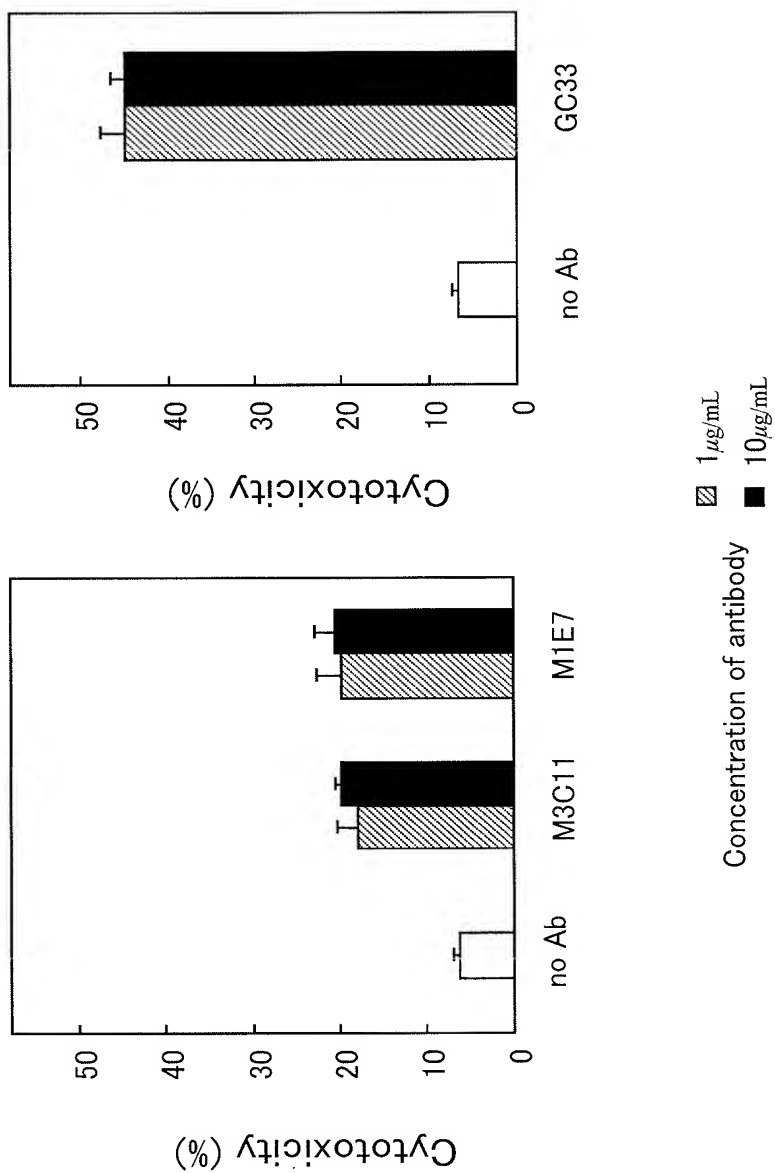


FIG.12

	GC33 WB
GC-4	GNSQQATPKDNEISTFHNLGNVHSP LK
GC-5	STFHNLGNVHSP LK
GC-6	GNSQQATPKDNEIS
GC-7	GNSQQATP
GC-8	QQATPKDN
GC-9	TPKDNEIS
GC-11	ATPKDNEIST
GC-12	PKDNEISTFH
GC-13	DNEISTFHN L
GC-14	EISTFHN L GN

FIG.13

14/20

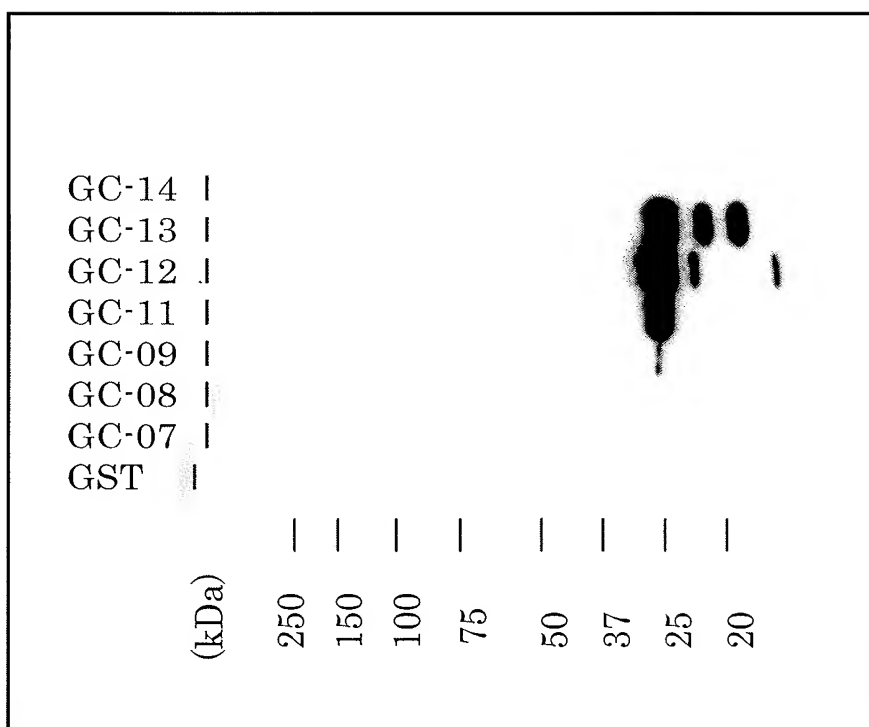


FIG.14

15/20

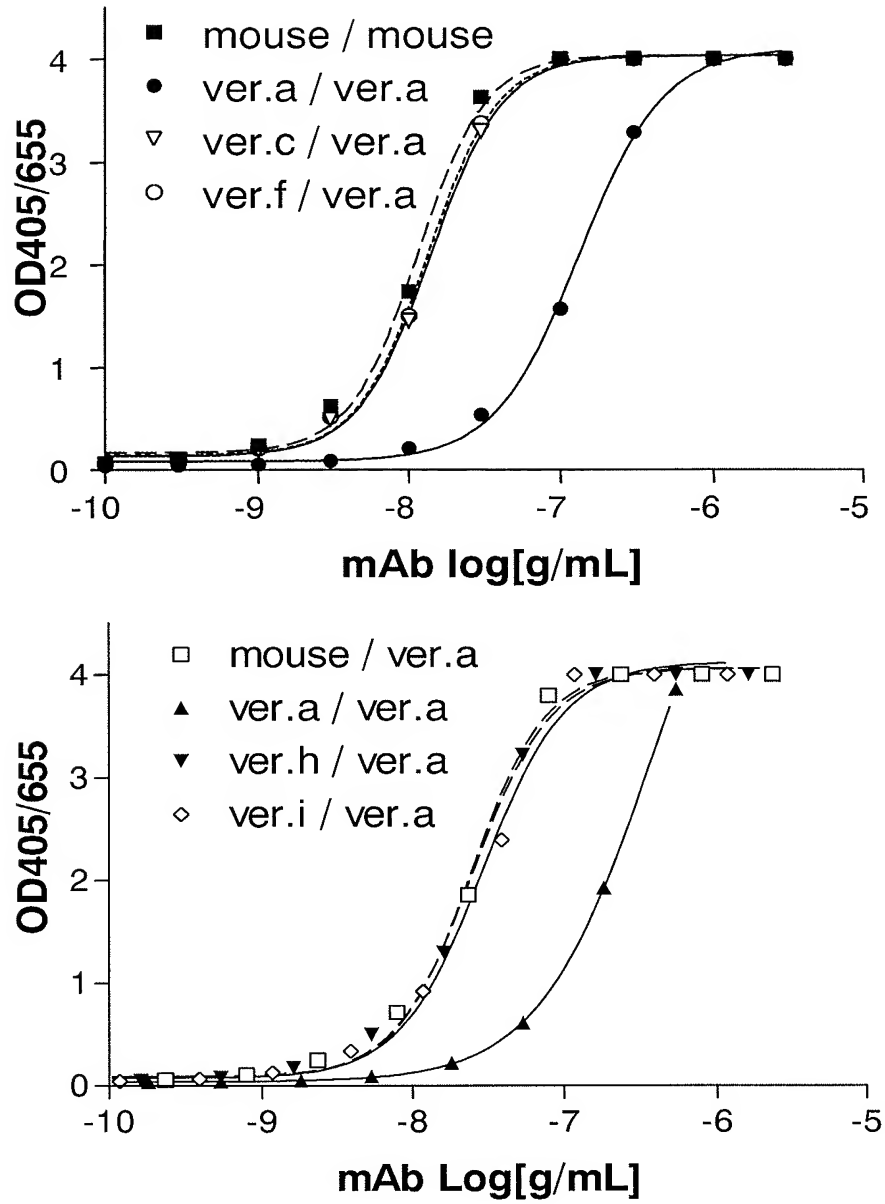


FIG.15

16/20

Clone ID	Isotype	ELISA		BIACORE			EPI TOPE		FACS				Immuno-precipitation
		EC50 (nM)	ka (1/Ms /10 ⁵)	kd (1/s x10 ⁵)	KD (nM)	Competitive ELISA	western blotting	CHO/ human GPC3	HepG2	HuH-7	CHO		
M3C11	IgG1	0.12	2.5	6.5	0.3	a	GC-2	83	59	9	-	△	
M13B3	IgG1	0.25	N.D.	N.D.	N.D.			N.D.	N.D.	N.D.	-	N.D.	
M1E7	IgG1	0.96	1.5	42.7	2.8			28	16	5	-	×	
M3B8	IgG1	0.56	2.7	467.0	17.6	b	GC-4	12	6	3	-	×	
M11F1	IgG2b	2.17	1.4	3.5	0.2			9	4	2	-	×	
L9G11	IgG1	0.62	1.3	140.0	10.7	e	N	29	26	4	-	○	
M19B11	IgG1	0.18	1.5	17.1	1.1	c		39	44	3	-	○	
M6B1	IgG1	5.51	N.D.	N.D.	N.D.			37	34	3	-	○	
M18D4	IgG1	0.85	0.8	49.6	6.2			22	20	2	-	○	
M5B9	IgG1	1.13	0.6	139.0	23.5			25	23	2	-	○	
M10D2	IgG1	1.04	1.1	49.6	4.7	d		20	29	3	-	○	

FIG.16

Clone ID	Isotype	ELISA	EPI TOPE		FACS			
		EC50 (nM)	Competitive ELISA	Western blotting	CHO/ human GPC3	HepG2	HuH-7	CHO
GC199	IgG1	0.10	b	GC-4	15.5	12.2	2.4	-
GC202	IgG1	0.10			6.0	0.9	1.4	-
GC33	IgG2a	0.24			82.7	52.0	8.4	-
GC179	IgG2b	5.61	f	GC-3	7.1	6.5	3.8	-
GC194	IgG1	3.83			5.0	7.9	1.5	-

FIG.17

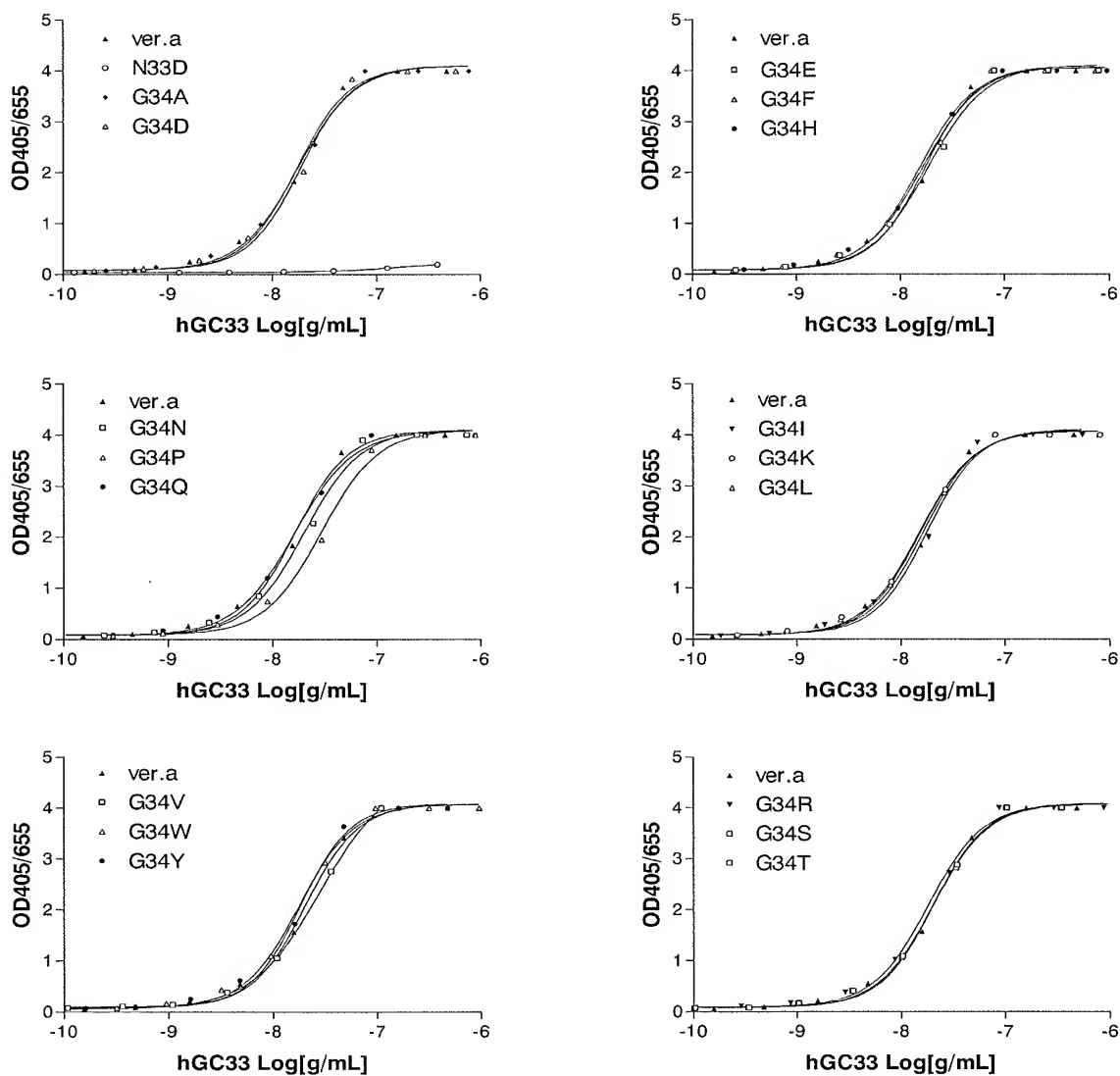


FIG.18

19/20

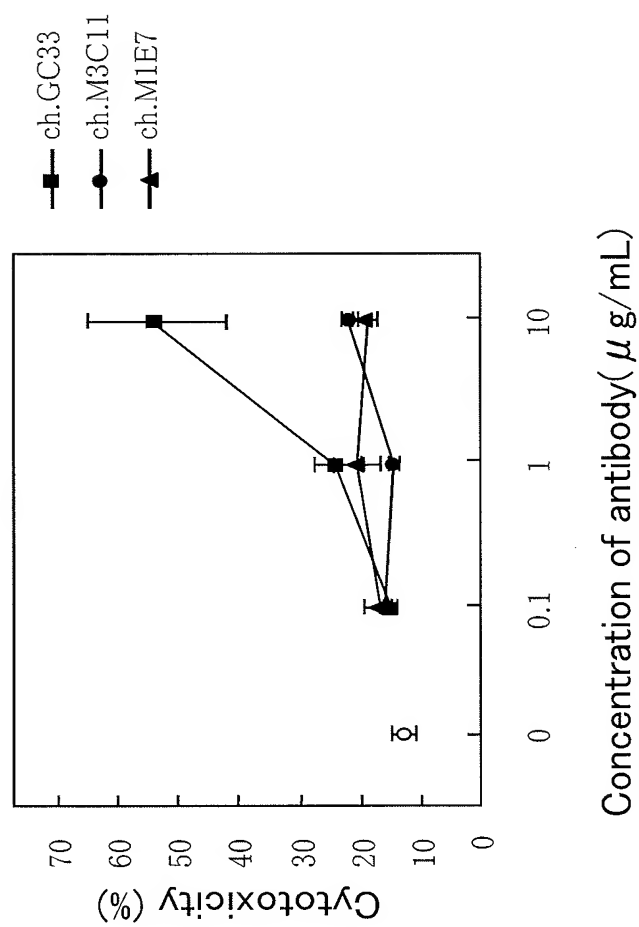


FIG.19

20/20

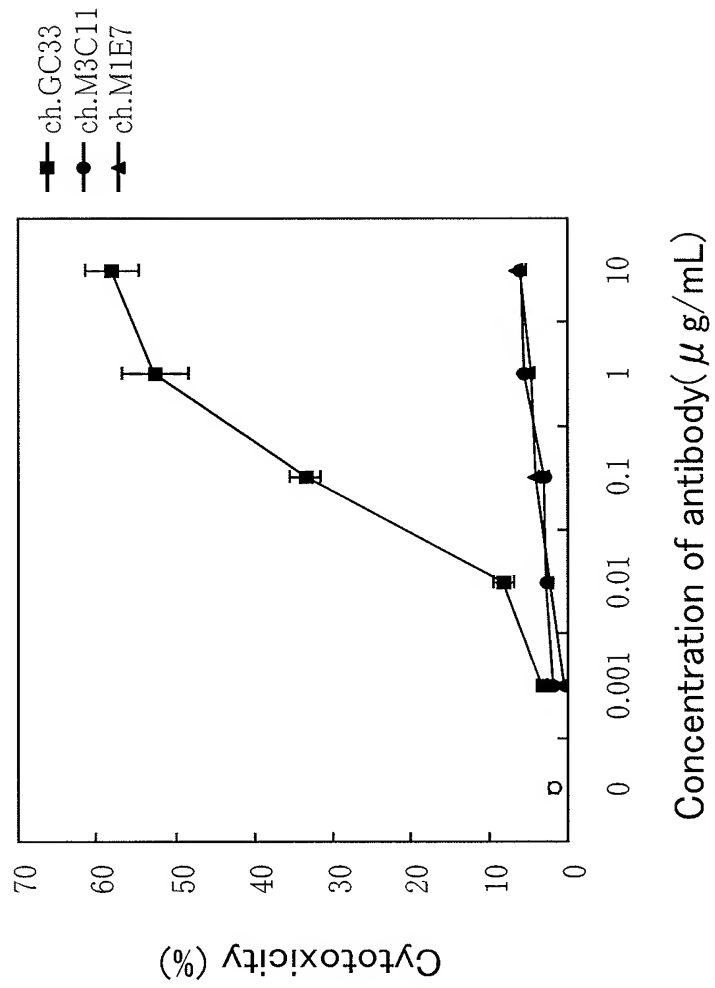


FIG.20